L Numb r	Hits	Search Text	DB	Tim stamp
1	20	(pixel ADJ lectr d) with recess	USPAT;	2001/06/27
•			EPO; JPO	08:48
2	532	curv\$3 ADJ electrod	USPAT;	2001/06/27
			EPO; JPO	08:50
3	0	curv\$3 ADJ electrode2 with curv\$3 ADJ	USPAT;	2001/06/27
		surface	EPO; JPO	08:49
4	0	(curv\$3 ADJ electrode) and multi ADJ	USPAT;	2001/06/27
		domain	EPO; JPO	08:51
5	5	(curv\$3 ADJ electrode) and (vertical or	USPAT;	2001/06/27
_		perpendicular) ADJ align\$4	EPO; JPO	10:29
6	7338	pixel ADJ electrode	USPAT;	2001/06/27
			EPO; JPO	10:31
7	61	(pixel ADJ electrode) and curv\$3 ADJ	USPAT;	2001/06/27
		surface	EPO; JPO	09:10
8	21940	(perpendicular or vertical) ADJ align\$4	USPAT;	2001/06/27
		,	EPO; JPO	12:13
9	5	((perpendicular or vertical) ADJ align\$4)	USPAT;	2001/06/27
	1	and (curv\$3 ADJ electrode)	EPO; JPO	09:25
10	16	((perpendicular or vertical) ADJ align\$4)	USPAT;	2001/06/27
	.5	with curv\$3 ADJ surface	1	09:29
11	248	349/130	EPO; JPO	1
••	240	343/130	USPAT;	2001/06/27
12	40	240/420	EPO; JPO	09:29
12	49	349/130 and curv\$3	USPAT;	2001/06/27
			EPO; JPO	09:30
13	0	349/130 and (curv\$3 ADJ electrode)	USPAT;	2001/06/27
			EPO; JPO	09:30
14	1	349/130 and curv\$3 ADJ surface	USPAT;	2001/06/27
			EPO; JPO	09:32
15	0	(349/130 and curv\$3) and ((pixel ADJ	USPAT;	2001/06/27
		electrode) and curv\$3 ADJ surface)	EPO; JPO	09:41
16	1	08292423.pn.	USPAT;	2001/06/27
			EPO; JPO	09:43
17	1	07318940.pn.	USPAT;	2001/06/27
		•	EPO; JPO	09:43
18	348	((perpendicular or vertical) ADJ align\$4)	USPAT;	2001/06/27
		and bump	EPO; JPO	09:49
19	6	((perpendicular or vertical) ADJ align\$4)	USPAT;	2001/06/27
		with bump	EPO; JPO	09:52
20	8039	(align\$3 or orientat\$3) ADJ (layer or film)	1 '	
	5555	(angive of orientates) Abs (layer or film)	USPAT;	2001/06/27
21		aum.\$2 AD I //aliam\$2 a= a=i==4=4\$0\ AD :	EPO; JPO	10:20
~ I	0	curv\$3 ADJ ((align\$3 or orientat\$3) ADJ	USPAT;	2001/06/27
20	_	(layer or film))	EPO; JPO	09:55
22	9	((align\$3 or orientat\$3) ADJ (layer or film))	USPAT;	2001/06/27
	_	with curv\$3 ADJ surface	EPO; JPO	10:11
23	2	((pixel ADJ electrode) and curv\$3 ADJ	USPAT;	2001/06/27
		surface) and ((perpendicular or vertical) ADJ align\$4)	EPO; JPO	10:11
24	4127	((align\$3 or orientat\$3) ADJ (layer r film))	USPAT;	2001/06/27
		and liquid ADJ crystal	EPO; JPO	10:12
25	О	(((align\$3 or rientat\$3) ADJ (layer or film))	USPAT;	2001/06/27
	-	and liquid ADJ crystal) and (curv\$3 ADJ	EPO; JPO	10:13
		I trode2 with curv\$3 ADJ surface)	, _,	10.13

26	0	(((align\$3 r ri ntat\$3) ADJ (layer or film))	USPAT;	2001/06/27
20		and liquid ADJ crystal) and (curv\$3 ADJ	EPO; JPO	10:14
		I ctrode)	2. 0, 0. 0	10.14
27	5	((align\$3 r ori ntat\$3) ADJ (layer r film))	USPAT:	2001/06/27
		with bump	EPO; JPO	10:20
28	348	((perpendicular r vertical) ADJ align\$4)	USPAT;	2001/06/27
		and bump	EPO; JPO	10:29
29	6	((perpendicular or vertical) ADJ align\$4)	USPAT;	2001/06/27
		with bump	EPO; JPO	10:29
30	0	(pixel ADJ electrode) with slant\$3 ADJ	USPAT;	2001/06/27
		surface	EPO; JPO	10:31
31	11	(pixel ADJ electrode) and slant\$3 ADJ	USPAT;	2001/06/27
		surface	EPO; JPO	10:32
32	14	((align\$3 or orientat\$3) ADJ (layer or film))	USPAT;	2001/06/27
		and slant\$3 ADJ surface	EPO; JPO	10:33
33	1	((align\$3 or orientat\$3) ADJ (layer or film))	USPAT;	2001/06/27
		with slant\$3 ADJ surface	EPO; JPO	10:35
34	0	((perpendicular or vertical) ADJ align\$4)	USPAT;	2001/06/27
		and (((align\$3 or orientat\$3) ADJ (layer or	EPO; JPO	10:51
		film)) and slant\$3 ADJ surface)		
35	0	349/130 and (curv\$3 ADJ electrode)	USPAT;	2001/06/27
			EPO; JPO	10:52
36	0	349/130 with bump	USPAT;	2001/06/27
			EPO; JPO	10:53
37	2	349/130 and bump	USPAT;	2001/06/27
			EPO; JPO	10:54
38	0	349/130 and curv\$3 ADJ recess	USPAT;	2001/06/27
			EPO; JPO	10:55
39	0	349/130 with recess	USPAT;	2001/06/27
			EPO; JPO	10:55
40	6	349/130 and recess	USPAT;	2001/06/27
			EPO; JPO	10:55
43	32	(pixel ADJ electrode) with protrusion	USPAT;	2001/06/27
			EPO; JPO	12:17
44	2	((perpendicular or vertical) ADJ align\$4)	USPAT;	2001/06/27
	İ	and ((pixel ADJ electrode) with protrusion)	EPO; JPO	12:17
47	25	columnar ADJ spacer and center	USPAT;	2001/06/27
		-	EPO; JPO	12:46
48	12	columnar ADJ spacer and LCD	USPAT;	2001/06/27
			EPO; JPO	13:12
49	49	columnar ADJ spacer and align\$4	USPAT;	2001/06/27
			EPO; JPO	17:53
50	523	((align\$3 or orientat\$3) ADJ (layer or film))	USPAT;	2001/06/27
		with (SiO or silicon oxide)	EPO; JPO	13:37
51	48	(((align\$3 or orientat\$3) ADJ (layer or film))	USPAT;	2001/06/27
		with (SiO or silicon oxide)) with vapor ADJ	EPO; JPO	15:13
	_	deposit\$3		
52	8	(((align\$3 or orientat\$3) ADJ (layer or film))	USPAT;	2001/06/27
		with (SiO r silicon oxid)) with bliqu ADJ	EPO; JPO	16:09
50	_	vap r ADJ d posit\$3	1	1
53	2	("3,834,792").PN.	USPAT;	2001/06/27
E A	40005	and the second s	EPO; JPO	15:25
54	16865	wiring ADJ layer	USPAT;	2001/06/27
			EPO; JPO	16:10

55	187	(pix I ADJ electr d) and (wiring ADJ layer)	USPAT;	2001/06/27
			EPO; JPO	16:11
56	54	(wiring ADJ lay r) with (pix I ADJ I tr d)	USPAT;	2001/06/27
			EPO; JPO	16:11
57	32	((wiring ADJ lay r) with (pixel ADJ	USPAT;	2001/06/27
		el ctr d)) and TFT	EPO; JPO	16:13
58	0	(((wiring ADJ layer) with (pixel ADJ	USPAT;	2001/06/27
		electrode)) and TFT) and polarizer	EPO; JPO	16:13
59	0	(((wiring ADJ layer) with (pixel ADJ	USPAT;	2001/06/27
		electrode)) and TFT) and polariz\$3 ADJ layer	EPO; JPO	16:14
60	8	(((wiring ADJ layer) with (pixel ADJ	USPAT;	2001/06/27
		electrode)) and TFT) and polariz\$3	EPO; JPO	16:45
61	0	(((wiring ADJ layer) with (pixel ADJ	USPAT;	2001/06/27
		electrode)) and TFT) and polariz\$3 ADJ axis	EPO; JPO	16:46
62	0	(((wiring ADJ layer) with (pixel ADJ	USPAT;	2001/06/27
		electrode)) and TFT) and polariz\$3 ADJ	EPO; JPO	16:46
		direction		
63	0	columnar ADJ spacer with parallel ADJ	USPAT;	2001/06/27
		align\$4	EPO; JPO	17:54
64	4	columnar ADJ spacer and parallel ADJ	USPAT;	2001/06/27
		align\$4	EPO; JPO	18:01
65	0	columnar ADJ spacer and horizontal ADJ	USPAT;	2001/06/27
		align\$4	EPO; JPO	17:59
66	20	columnar ADJ spacer with align\$4	USPAT;	2001/06/27
			EPO; JPO	18:01
-	0	curved ADJ pixel ADJ electrode	USPAT;	2001/06/26
			EPO; JPO	19:33
-	2	curv\$3 ADJ pixel ADJ electrode	USPAT;	2001/06/26
			EPO; JPO	19:36
-	3	(pixel ADJ electrode) with curv\$3 ADJ	USPAT;	2001/06/26
		surface	EPO; JPO	19:46
•	32	(pixel ADJ electrode) with protrusion	USPAT;	2001/06/26
			EPO; JPO	19:55
•	2	((pixel ADJ electrode) with recess) and	USPAT;	2001/06/26
		((pixel ADJ electrode) with protrusion)	EPO; JPO	19:56
-	20	(pixel ADJ electrode) with recess	USPAT;	2001/06/26
			EPO; JPO	20:04
•	32	(pixel ADJ electrode) with protrusion	USPAT;	2001/06/27
			EPO; JPO	12:16
-	0	(pixel ADJ electrode) with curv\$3 ADJ	USPAT;	2001/06/26
	į .	recess	EPO; JPO	19:59
-	O	(columnar ADJ spacer) with parallel ADJ	USPAT;	2001/06/26
-		align\$4	EPO; JPO	20:06
• •	0	align\$4 ((columnar ADJ spacer) with align\$4) and	EPO; JPO USPAT;	20:06 2001/06/26
- -	1	align\$4 ((columnar ADJ spacer) with align\$4) and vertical ADJ align\$4	EPO; JPO USPAT; EPO; JPO	20:06 2001/06/26 20:08
		align\$4 ((columnar ADJ spacer) with align\$4) and	EPO; JPO USPAT; EPO; JPO USPAT;	20:06 2001/06/26 20:08 2001/06/27
• •	1 21940	align\$4 ((columnar ADJ spacer) with align\$4) and vertical ADJ align\$4 (perpendicular or vertical) ADJ align\$4	EPO; JPO USPAT; EPO; JPO USPAT; EPO; JPO	20:06 2001/06/26 20:08 2001/06/27 09:22
- - -	1	align\$4 ((columnar ADJ spacer) with align\$4) and vertical ADJ align\$4 (perpendicular or vertical) ADJ align\$4 ((pixel ADJ electrode) with recess) and	EPO; JPO USPAT; EPO; JPO USPAT; EPO; JPO USPAT;	20:06 2001/06/26 20:08 2001/06/27 09:22 2001/06/26
• •	1 21940 0	align\$4 ((columnar ADJ spacer) with align\$4) and vertical ADJ align\$4 (perpendicular or vertical) ADJ align\$4 ((pixel ADJ electrode) with recess) and ((perpendicular r vertical) ADJ align\$4)	EPO; JPO USPAT; EPO; JPO USPAT; EPO; JPO USPAT; EPO; JPO	20:06 2001/06/26 20:08 2001/06/27 09:22 2001/06/26 20:11
·	1 21940	align\$4 ((columnar ADJ spacer) with align\$4) and vertical ADJ align\$4 (perpendicular or vertical) ADJ align\$4 ((pixel ADJ electrode) with recess) and ((perpendicular r vertical) ADJ align\$4) (c lumnar ADJ spac r) and ((perpendicular	EPO; JPO USPAT; EPO; JPO USPAT; EPO; JPO USPAT; EPO; JPO USPAT;	20:06 2001/06/26 20:08 2001/06/27 09:22 2001/06/26 20:11 2001/06/26
• • •	1 21940 0	align\$4 ((columnar ADJ spacer) with align\$4) and vertical ADJ align\$4 (perpendicular or vertical) ADJ align\$4 ((pixel ADJ electrode) with recess) and ((perpendicular r vertical) ADJ align\$4)	EPO; JPO USPAT; EPO; JPO USPAT; EPO; JPO USPAT; EPO; JPO	20:06 2001/06/26 20:08 2001/06/27 09:22 2001/06/26 20:11

- 149 columnar ADJ spac r USPAT; 2001/06/27 EPO; JPO 13:08

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